

# SCIENTIFIC NOTEBOOK # 529E

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by

Karen Stiles

*I have reviewed  
this scientific notebook  
and find it in agreement  
with SAP-001.*  
*[Signature]*  
*10-31-03*

Southwest Research Institute  
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San Antonio, Texas

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*[Signature]*  
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**TABLE OF CONTENTS**

**1. GENERAL**

- 1.2 Objectives
- 1.2 Required Software

**2. ACCEPTANCE TEST PLAN**

- 2.1 Acceptance Test Plan
- 2.2 SRD Requirements

**3. RESULTS OF INITIAL TEST (Version Beta 6.0)**

- 3.1 Results of the Initial Acceptance Test
- 3.2 Problems Found in Initial Acceptance Test
- 3.3 Solutions to Problems Found in Initial Acceptance Test

**4. RESULTS OF SECOND TEST (Version 7/5/2002)**

- 4.1 Results of the Second Acceptance Test
- 4.2 Problems Found in Second Acceptance Test
- 4.3 Solutions to Problems Found in Second Acceptance Test

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SCIENTIFIC NOTEBOOK # 529E

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**0. INITIAL ENTRIES**

**Scientific Note Book:** # 529E

**Issued to:** Karen Stiles

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**Project Title:** Development of Preclosure Safety Analysis Tool

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**Project Manager:** Asadul Chowdhury

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By agreement with the CNWRA QA, this notebook is to be printed at approximate semi-annual intervals. This computerized Scientific Notebook is intended to address the criteria of CNWRA QAP-001.

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**SCIENTIFIC NOTEBOOK # 529E**

**1. GENERAL**

**1.1 Objectives**

The objective is to test the Preclosure Safety Analysis Tool (PCSA Tool) Menus, Sub-Menus, Forms, and Buttons for correctness of their execution. We will be testing to see if they correctly execute what they are intended to do.

**1.2 Required Software**

PCSA Tool operates on an IBM compatible personal computer installed with Windows NT 4.0 or higher.

**2. ACCEPTANCE TEST PLAN**

**2.1 Acceptance Test Plan**

Beginning with the Startup Menu that appears when the PCSA Tool program is first opened and continuing through the rest of the Menu options click each button in every window and determine if it is executing properly. For example, when the PCSA Tool is initially opened the Startup Menu appears and if you were to click the About PCSA button you should get the About PCSA Form. The form has a Close button at the bottom, and if you click to Close button the window should close and return to the Startup menu. If this chain of events occurs then we deem the event to be acceptable, and then we move onto the next button in the Startup Menu.

**2.2 SRD Requirements**

The PCSA Tool was designed to meet the requirements set forth in the Software Requirement Description.

<b>SOFTWARE REQUIREMENTS DESCRIPTION FOR THE PCSA TOOL</b> Version 1.0 Beta	<b>DOES THE TOOL HAVE THE REQUIREMENT?</b>
<i>Software Function</i>	
Develop a graphical user interface application for conducting a review of the DOE safety analysis by the NRC.	Yes, the PCSA Tool is a graphical user interface between databases, software packages and utility tools.
<i>Technical Basis: Physical and Mathematical Model</i>	
Site-Specific Hazard Analysis	Site-specific hazard analysis is done in the Ex. Events Menu in both the Natural and Human Induced categories.

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SCIENTIFIC NOTEBOOK # 529E

<p>Facility Hazard Analysis</p>	<p>Facility hazard analysis takes into account the internal hazards of both human and hardware. This is found in the Int. Haz. Analysis Menu of the Tool. The FMEA, What If, and Energy Analysis Sub-Menus all are part of this calculation. Information on facility design and operations required for the facility hazard analysis is entered in System Menu.</p>
<p>Event Sequence Analysis</p>	<p>The user inputs data in the Form and Table of the Event Tree and Fault Tree Sub-Menus which are found in the Freq. Analysis Menu. The data is then used in the SAPHIRE code where the calculations are done and the data is then sent back to the Tool for presentation to the user.</p>
<p>Categorization of Events</p>	<p>The events are given a category of 1, 2, or BCFL. This is done internally in the program, and the categorizations can be seen when the following choices are made Performance Menu =&gt; Project Sub-Menu.</p>
<p>Consequence Analysis</p>	<p>Consequences =&gt; Public Dose =&gt; RSAC or MELCOR, and from there the user inputs data and then runs the programs. The results are then shown graphical and numerically once the realizations are complete. The Tool conducts deterministic and probabilistic consequence analysis.</p>
<p>Safety Assessment</p>	<p>1) Performance =&gt; Project =&gt; Safety Assessment.                  2) Performance =&gt; Project =&gt; SSCIS =&gt; Safety Assessment.                  3) Performance =&gt; This Level.                  From there the total dose can be calculated.</p>
<p>Structures, Systems, and Components Important to Safety</p>	<p>This is taken into account with the SSCIS button. It is found Performance =&gt; Project or This Level =&gt; SSCIS. From there the desired data can be obtained.</p>
<p>SAPHIRE</p>	<p>The SAPHIRE code can be run from the Saphire Menu of the PCSA Tool program. It does event sequence analysis and quantitative frequency evaluation using the event tree and fault tree models.</p>

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SCIENTIFIC NOTEBOOK # 529E

RSAC	The RSAC code can be run from the Consequences Menu under the Public Dose Sub-Menu. It will calculate the radiological dose to a member of the public given a certain type of radioactive release. Deterministic or probabilistic consequence analysis is performed in RSAC.
MELCOR	The MELCOR code can be run from the Consequences Menu under the Public Dose Sub-Menu. It will estimate the building discharge fractions.
<b><i>Computational Approach</i></b>	
Store data in a database	Data is stored in either the read-only failure rate database or the project database. The read-only failure rate database contains failure rates of electrical and mechanical components along with the citations for source of data. The project database is used for storing data that is or has been analyzed and will be viewed later.
Perform model analysis	Model analysis is performed in both the RSAC, MELCOR, and SAPHIRE codes.
<b><i>Data Flow and User Interface</i></b>	
The graphical user interface that is created will connect to Microsoft Access databases and computer codes, SAPHIRE, RSAC, and MELCOR.	Yes, the graphical user interface connects to MS Access and the three computer codes.
The graphical user interface will have a menu bar at the top of the window and each menu will have options which will have forms and other suboptions to be able to create tables and data.	Yes, PCSA Tool has a menu bar at the top of the window and each menu button has options and most have suboptions that lead to forms and tables where data can be entered or viewed.
Read-only failure rate database viewed through the user interface	
Project database provides tables for entering, viewing, sorting and filtering data.	Analysis data is stored in this database and used when viewing data.
Graphical user interface generates input data for model analysis, stores output data, displays graphical results and generates reports.	Yes, the graphical user interface inputs data for model analysis, stores output data, displays graphical results, and generates reports.

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**SCIENTIFIC NOTEBOOK # 529E**

<b><i>Hardware and Software Requirements</i></b>	
PCSA Tool operates on an IBM compatible personal computer with Windows NT 4.0 or higher	Yes, PCSA Tool works on an IBM compatible personal computer with Windows NT 4.0.
Visual Basic 6.0	Visual Basic 6.0 is being used in the graphical user interface development of the PCSA Tool.
Microsoft Access 97 SR-2	Microsoft Access 97 SR-2 is being used in the database development of the PCSA Tool.
SAPHIRE Version 6.70	SAPHIRE Version 6.70 is being used in the PCSA Tool program and can be executed from the Saphire Menu in the Tool.
RSAC Version 5.2	RSAC Version 5.2 is being used in the PCSA Tool program and can be executed from the Consequences Menu in the Tool.
MELCOR Version 1.8.5	MELCOR Version 1.8.5 is being used in the PCSA Tool program and can be executed from the Consequences Menu in the Tool.
InstallShield Professional-Windows Installer Edition Version 2.03	InstallShield Professional-Windows Installer Edition 2.0 is being used to generate the installation for the PCSA Tool.
Crystal Reports 8.5, Developer Edition	Crystal Reports 8.5, Developer Edition is not currently being used in the Tool, but will be used as the Tool is further developed.
Component Chart 7.0	Component Chart 7.0 is not currently being used in the Tool, but will be used as the Tool is further developed.
Utility suite of codes	Utility suite of codes are PCSA_LHS, PCSA_LHSINP, PCSA_PROB, PCSA_RSACRD, and PCSA_COMBAN. These codes are developed using Lahey Fortran LF90. These codes are executed during probabilistic consequence analysis and safety analysis.
Lahey LF90 Fortran Compiler	Lahey LF90 Fortran Compiler is used in the development of the PCSA Tool.
<b><i>Graphics Requirements</i></b>	

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**SCIENTIFIC NOTEBOOK # 529E**

Graphical display model will display the deterministic and probabilistic dose calculation results.	Yes, graphical results are displayed for both deterministic and probabilistic results.
Fault Tree and Event Tree models are graphically displayed using features of the SAPHIRE code.	Fault Tree and Event Tree models are developed graphically using the SAPHIRE code.
<i>Pre- and Post-Processor</i>	
Input and output data and display results from acquired software packages, particularly when using RSAC and MELCOR codes.	Yes, input and output data from the software packages can be displayed.

**3. RESULTS OF INITIAL TEST**

**3.1 Results of the Initial Acceptance Test**

The findings of the of the initial test of the Beta 6.0 version of the PCSA Tool are shown in the following chart.

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PCSA Tool Version Beta 6.0 Acceptance Test

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
Startup	About PCSA			About PCSA	Close							OK, Closes the About PCSA window and goes back to Startup Menu	
	Disclaimer			Disclaimer	OK							Run Time error '339' "OK" -> closed program	
	Open project			Open An Existing Project	Open								OK, Opens the chosen file in PCSA Tool
					Cancel	PCSA Tool - No file selected	OK						OK, Closes window and goes back to Startup Menu
	Create project			Create A New Project	Open	Create Levels for Functional Area	Apply						OK, Creates the new functional level that has been selected
							Reset						

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SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
							Delete					OK, Deletes the highlighted functional area	
							View Tree	Creation Tree View	Done				OK, Shows the new functional tree, then returns to be able to create more levels
							Done						OK, Opens the new file and functional areas in PCSA Tool
							Cancel	PCSA Tool - This action will destroy your tree. Do you want to continue?	Yes				OK, Closes both windows and goes back to Startup Menu
									No				OK, Closes window and goes back to create more functional areas
							Cancel	PCSA Tool - No file selected	OK				OK, Closes window and goes back to Startup Menu
							Exit						OK, Closes PCSA Tool

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
File	New Project			PCSA Tool - Do you wish to save your work?	Yes	Save As	Save	PCSA Tool - The file that you have selected already exists. Do you want to overwrite it?	Yes			OK, Saves file and opens Startup Menu
									No			OK, Closes PCSA Tool window and goes back to Save As window
								You can only save to a new file or the one that you originally opened	OK			OK, Closes window and goes back to Save As window
							Cancel					OK, Closes the window and goes back to the Startup Menu

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
					No	PCSA Tool - If you have not saved, your work will be destroyed. Continue?	Yes					OK, Closes window and goes to startup menu
							No					OK, Closes window and goes back to PCSA Tool
	Open Project			PCSA Tool - Do you wish to save your work?	Yes	Save As	Save	You can only save to a new file or the one that you originally opened	OK	Save As	(See buttons in Button Level 2, to left)	OK, Saves and goes to startup menu
								The file that you have selected already exists. Do you want to overwrite it?	Yes			OK, Saves and goes back to Startup Menu
									No			OK, Closes window and goes back to Save As Menu
							Cancel					OK, Closes window and goes back to Startup Menu

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
					No	PCSA Tool (work will be destroyed if not saved, continue?)	Yes					OK, Closes window and goes back to Startup Menu	
							No					OK, Closes window and goes back to PCSA Tool	
	Save											OK, appears to have saved	
	Save As				Save As	Save	You can only save to a new file or the one that you originally opened	OK					OK, Closes window and goes back to Save As Menu
								The file that you have selected already exists. Do you want to overwrite it?	Yes				OK, appears to have saved and still in PCSA Tool main page
							Cancel		No				OK, Closes window and goes back to Save As Menu

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
	Exit			PCSA Tool - Do you want to save?	Yes							OK, Appears to have saved, then the program closed
					No							OK, Doesn't appear to save, then the program closed
Project_Tree				Project Tree	Define Levels	Define Levels	Done					OK, Closes Define Levels window and goes back to Project Tree window
					Show Report	Project Tree Report	Print	Print	OK			OK, Report printed properly
									Cancel			OK, Closed Print window and went back to Report

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Export	Export	Save			When I try and save the report as a .txt file I get an ERROR: "Invalid Data Source" It also didn't save anything, just an empty file. Also when I try and save it as an HTML file I get the same error and it also doesn't save anything to the HTML file
									Cancel			OK, Closes window and goes back to Report
					Add Level	Edit Levels for Functional Area	Apply					OK, Adds the selected level
							Reset					OK, Clears your level selections
							Delete					OK, Deletes the selected level

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Done					OK, Saves the new levels, closes the window and returns to Project Tree window
							Cancel	PCSA Tool - This action will destroy your List. Do you wish to continue?	Yes			OK, Closes the window and returns to Project Tree window
								No				OK, Closes window and goes back to Edit Levels window
					Edit Selection	PCSA Tool - No selection has been made	OK					OK, Closes window and returns to Project Tree window
						Functional Area Descriptions	OK					OK, Saves changes and returns to Project Tree window

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Cancel	PCSA Tool - Any changes to the functional area descriptions will not be applied	OK			OK, Changes were not saves and then returned to Project Tree window
					Done	PCSA Tool - You have not selected a functional area. Do you wish to exit anyway?	Yes					OK, Closes window and goes to PCSA Tool Main page
				No								OK, Closes window and returns to Project Tree window
												OK, If a level is selected then the Project Tree window closes and goes to PCSA Tool main page

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
					Delete Selection	PCSA Tool - The functional area is in use. This entry cannot be deleted.	OK					OK, Closes window and returns to Project Tree window
						PCSA Tool - You have not selected a functional area. There is nothing to delete.	OK					OK, Closes window and returns to Project Tree window
												OK, Deletes the functional level if it is not in use
System	Sysdesc			System Description	Apply							OK, Saves new information on specific system
					Show Report	System Description Report	Print	Print	OK			OK, Prints report, closes Print window, and goes back to report
									Cancel			OK, Closes Print window and goes back to report

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Export	Export	Save			OK, Saved report as .htm file without a problem. Then when I opened the file it looked to be all the previous reports on this system, with the newest one at the bottom of the 10 pages. Please see file: C:\Program Files\PCSA Tool\system .htm
									Cancel			OK, Closes the Export window and goes back to the report
					OK							OK, Saves the new information, closes the window and goes back to the PCSA Tool main page

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
					Cancel							OK, Doesn't save the new information, closes the window and goes back to the PCSA Tool main page
Int. Hazard Analysis	FMEA	Form		FMEA Form	Add Record	FMEA Form	Update Record	PCSA Tool - You must enter a Component Description, or click Cancel.	OK	FMEA Form		OK, Saves the new record and returns to the FMEA Form
							Cancel					OK
					Delete Record	PCSA Tool - Are you sure you want to delete record?	Yes				OK	
							NO				OK	
					Edit Record	FMEA Form	Update Record				OK	
							Cancel				OK	
					Show Report	FMEA Report	Print	Print	OK		OK	
				Cancel			OK					

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Export	Export	Save			OK, Saves to .htm file but then I'm not sure how it opens in Explorer
									Cancel			OK
					FMEA Table	FMEA Table	(See below for Table buttons)					OK
					Close							OK
		Table		FMEA Table	FMEA Form	FMEA Form	(See above for Form buttons)					OK
					Add Record	Add Record	Apply					OK
							Cancel					OK
					Delete Record	Deleting Record	Yes					OK
							No					OK
					Edit Record	Edit/Change	Apply					OK
							Cancel					OK
						This cell cannot be edited!	OK					OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
						The Item No. field cannot be changed!	OK					OK	
					Copy Record	Add Record	Apply					OK	
							Cancel						OK
					Show Report	FMEA Report	Print	Print	OK			OK	
							Cancel						OK
							Export	Export	Save				Saves as an .htm file but then doesn't appear correctly in Explorer
									Cancel				OK
					Close							OK	
		Severe Events List		Severe Events List	Edit Record	This cell cannot be edited!	OK	PCSA Tool - The only field that can be edited is 'RemarksFE MTable'.	OK			OK	

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments					
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level														
						PCSA Tool - The only field that can be edited is 'RemarksFEM ATable'.	OK					OK					
						Edit/Change	Apply					OK					
					Cancel						OK						
					Show Report					FMEA Report	Print	Print	OK				OK
													Cancel			OK	
										Export	Export	Save				Same error as above for the FMEA Table report	
												Cancel				OK	
					Close						OK						
					What If	Form			What If Form	Add Record	What If Form	Update					OK
												Cancel				OK	
										Delete Record	PCSA Tool - Are you sure you want to delete record?	Yes				OK	
												No				OK	

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
					Edit Record	What If Form	Update Record					OK
							Cancel					OK
					Show Report	What If Analysis Report	Print	Print	OK			OK
									Cancel			
							Export	Export	Save			OK, Worked for .htm file, and opened in Explorer
									Cancel			OK
					What If Table	What If Table	(See below for Table buttons)					OK
					Close							OK
		Table		What If Table	What If Form	What If Form	(See above for Form buttons)					OK
					Add Record	Add Record	Apply					tried to add a record but got a run time error and then the program crashed
								Cancel				

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
					Edit Record	PCSA Tool - Item No. Field cannot be changed!	OK					OK
						This cell cannot be edited!	OK					OK
						Edit/Change	Apply	PCSA Tool - Error: Unable to find Event!	OK			OK
							Cancel					OK
					Copy Record	Add Record	Apply					same run time error as add record, program closes
							Cancel					OK
					Delete Record	Deleting Record	Yes					OK
							No					OK
					Show Report	What If Analysis Report	Print	Print	OK			OK
								Cancel				OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments							
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level																
							Export	Export	Save			shows report as a .htm file but it doesn't show the changes that I made, I think this will be fixed when the run-time error is gone							
									Cancel			OK							
									Close			OK							
									Severe Events List			Severe Events List	Severe Events List	Edit Record	This cell cannot be edited!	OK	The only field that can be changed is 'Remarks'.	OK	OK
															The only field that can be changed is 'Remarks'.	OK			OK
															Edit/Change	Apply			OK
									Cancel					OK					
									Show Report			What If Analysis Report	Print	Print	OK			OK	
															Cancel			OK	

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Export	Export	Save			Exported the incorrect report. It exported the one for the form and table and not the severe events.
									Cancel			OK
					Close							OK
	Energy Analysis	Form		Energy Analysis Form	Previous							OK
					Next							OK
					Add record	Energy Analysis Form	Update Record					OK
							Cancel					OK
					Delete Record	PCSA Tool - Are you sure you want to delete record?	Yes					OK
							No					OK
					Edit Record	Energy Analysis Form	Update Record					OK
							Cancel					OK
					Show Report	Energy Analysis Report	Print	Print	OK			OK
									Cancel			OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
							Export	Export	Save			OK, .htm works	
									Cancel			OK	
					Energy Anal. Table	Energy Analysis Table	(See below for Table buttons)					OK	
					Close							OK	
		Table			Previous							OK	
		Table			Next							OK	
		Table			Energy Anal. Form	Energy Analysis Form	(See above for Form buttons)					OK	
		Table			Add Record	Energy Analysis Form	Update Record					OK	
		Table					Cancel						OK
		Table			Edit Record	This cell cannot be edited!	OK					OK	
		Table					Edit/Change	Apply					OK
		Table						Cancel					
		Table			Copy Record	Add Record	Apply					OK	
		Table					Cancel						OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments										
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level																			
					Delete Record	Deleting Record	Yes					OK										
							No					OK										
					Show Report	Energy Analysis Report	Print	Print	OK	Cancel							OK					
																	OK					
																	Export	Export	Save		OK, no problems with .htm file	
																	Cancel			OK		
										Close							OK					
					Severe Events List	Severe Events List	Severe Events List	Severe Events List	Severe Events List	Edit Record	This cell cannot be edited!	OK	The only field that can be changed is 'Remarks'.	OK				OK				
																	OK					
																	OK					
										Show Report	Energy Analysis Report	Print	Print	OK	Cancel							OK
																						OK
																						Export

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
									Cancel			OK
					Close							OK
Freq. Analysis	Initiating Event	Form		Initiating Event Form	Add Record	Initiating Event Form	Update Record					OK
							Cancel					OK
					Delete Record	PCSA Tool - Are you sure that you want to delete record?	Yes					OK
							No					OK
					Edit Record	Initiating Event Form	Update Record					OK
							Cancel					OK
					Show Report	Initiating Event Report	Print	Print		OK		OK
								Cancel				OK
							Export	Export	Save			
					Cancel						OK	
					Init Event Table	Initiating Event Table	(See below for Table buttons)					OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
					Close							OK	
		Table		Initiating Event Table	Init Event Form	Initiating Event Form						OK	
					Add Record	Add Record	Apply					brings up the what if table and wants me to add an even there not in the initiating even table	
							Cancel					????	
					Edit Record	Error (This cell cannot be edited)	???						don't know until above is fixed
						This field cannot be changed (only filed can be changed if REMARKS)	???						don't know until above is fixed
						Edit Change	Apply						OK
						Cancel						OK	

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments				
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level													
					Copy Record	Add Record	Apply					brings up the what if table and wants me to change the object in there and not in the initiating events table				
							Cancel					???				
					Delete Record	Deleting Record	Yes					OK				
							No					OK				
					Show Report	Initiating Event Report	Print	Print	OK			OK				
									Cancel				OK			
							Export	Export	Save				Invalid data source error, doesn't save anything to the file			
									Cancel				OK			
					Close						OK					
					Event Tree	Event Scenario		Event Scenario	Frequency Calculation	Failure Worksheet	Calculate					OK
											Save to File	Data Saved (Gives the file name where the data is saved.)	OK			OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Reset					OK
							Close					OK
					Add Event Sequence	Event Scenario	Update Record					OK
							Cancel					OK
					Edit Event Sequence	Event Scenario	Update Record					OK
							Cancel					OK
					Delete Event Sequence	PCSA Tool - Do you want to delete Item Sequence No. [00.0]?	Yes					OK
							No					OK
					Add Scenario	Event Scenario	Update Record					OK
							Cancel					OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments				
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level													
					Delete Scenario	PCSA Tool - Are you sure that you want to delete this Scenario and all associated Event Sequences?	Yes					OK				
							No					OK				
					Edit Record	Event Scenario	Update Record					OK				
							Cancel					OK				
					Show Report	Event Scenario Report	Print	Print	OK			OK				
									Cancel			OK				
							Export	Export	Save			OK, .htm file worked				
									Cancel			OK				
					Close							OK				
					Event Sequence	Form	Event Sequence Form	Add Record	Event Sequence Form	Update Record						OK
										Cancel					OK	

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
					Delete Record	PCSA Tool - Are you sure you want to delete record?	Yes					OK	
							No					OK	
					Edit Record	Event Sequence Form	Update Record					OK	
							Cancel					OK	
					Show Report	Event Sequence Report	Print	Print	OK			OK	
				Cancel							OK		
				Export			Export	Save					semi works – has old or stored data and new entry in report in Explorer
									Cancel			OK	
				Event Seq. Table	Event Sequence Table	(See below for Table buttons)						OK	
				Close								OK	
			Table	Event Sequence Table	Event Seq. Form	Event Sequence Form	(See above for Form buttons)					OK	
					Add	Add Record	Apply					OK	

Record

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Cancel					OK
					Edit Record	The Item No. filed cannot be changed!	OK					OK
						This cell cannot be edited!	OK					OK
						Edit/Change	Apply					OK
							Cancel					OK
					Copy Record	Add Record	Apply					OK
							Cancel					OK
					Delete Record	Deleting Record	Yes					OK
							No					OK
					Show Report	Event Sequence Report	Print	Print	OK			OK
								Cancel				OK
							Export	Export	Save			semi works – has old or stored data and new entry in report in Explorer
									Cancel			OK
					Close							OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
	Fault Tree	Form		Fault Tree Form	Add Record	Fault Tree Form	Update Record					OK
							Cancel					OK
					Delete Record	PCSA Tool - Are you sure you want to delete record?	Yes					OK
							No					OK
					Edit Record	Fault Tree Form	Update Record					OK
							Cancel					OK
					Cancel							This button appears when you first open the window and I don't think that it should be there, run time error occurs and then the program crashes
					Show Report	Fault Tree Report	Print	Print	OK			OK
									Cancel			
							Export	Export	Save			

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
									Cancel			OK	
					Fault Tree Table	Fault Tree Table	(See below for Table buttons)					OK	
					Close							OK	
		Table		Fault Tree Table	Fault Tree Form	Fault Tree Form	(See above for Form buttons)					OK	
					Add Record	Add Record	Apply					OK	
							Cancel						OK
					Edit Record	The Item No. file cannot be changed!	OK					OK	
							This cell cannot be edited!	OK					OK
							Edit/Change	Apply					OK
					Cancel							OK	
					Copy Record	Add Record	Apply					OK	
							Cancel						OK
					Delete Record	Deleting Record	Yes					OK	

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							No					OK
					Show Report	Fault Tree Report	Print	Print	OK			OK
									Cancel			OK
							Export	Export	Save			semi works – has old or stored data and new entry in report in Explorer
									Cancel			OK
					Close							OK
Saphire	Run Saphire											OK
Consequence	Public Dose	RSAC	Standard RSAC Input	RSAC Input	Set All Defaults							OK
					Set Page Defaults							OK
					Cancel	PCSA Tool - You did not create an RCAS input file.	OK					OK
					Done/Run	RSAC Output	View RSAC Output File	Notepad file - rsac5out.txt				OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
							Done					OK	
			Advanced RSAC Input	Deterministic RSAC Run for Advanced Users	Get RSAC input file from tool.							can't tell if the button does anything	
					Exit Run Advanced								OK
					Run Advanced	Notepad file - rsac5.in	I think I can change values and then close the window and the program runs	Notepad file - Rsac5.out					OK
			Show output	RSAC Output	View RSAC Output File	Notepad file - rsac5out.txt						OK	
					Done							OK	
		MELCOR	Input	MELCOR Input	Defaults							OK	
					Defaults								OK
					Cancel								OK
					Run MELCOR	MELCOR Results	Close						OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
			Output	MELCOR Results	OK							OK	
	Worker Dose			Worker Dose	Reload Defaults							OK	
					Calculate Dose								OK
					Defaults								OK
					Close								OK
Performance	Frequency Categorization			Frequency Categorization	Apply	Frequency Categorization	Close					OK	
	Project			Results Table - Project View Base Case	Refresh							I can't tell what this button does	
					Safety Assessment	Performance Assessment	1, Search Now	Safety Assessment - Category 1 Event Sequence	Calculate				This first Calc button doesn't seem to do anything
									Calculate	comban.txt - Notepad			OK, Makes a program run and gives a notepad data file
									Done				OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
							2, Search Now	Results Table - Project View Base Case	(See above for buttons)			OK	
							BCFL, Search Now	Results Table - Project View Base Case	(See above for buttons)			OK	
							Cancel					OK	
					Add Record							button not operable	
					Edit Record							button not operable	
					Delete Record							button not operable	
					Show Report	Performance Assessment Report	Print	Print	OK			OK	
				Cancel							OK		
				Export			Export	Save					Saves some other report to file, not the one shown with the show report button
								Cancel			OK		

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments		
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level											
					SSCIS	Results Table - Project View SSCIS Case	Refresh					button doesn't appear to do anything		
							Safety Assessment	1, Search Now	Safety Assessment - Category 1 Event Sequence	Calculate		this button doesn't appear to do anything		
						Calculate					OK			
						Done					OK			
								2, Search Now				OK		
								BCFL, Search Now				OK		
								Cancel				OK		
							Edit Record	You cannot edit Functional ID or Event No. Column. Delete the row and add a new event.	OK			OK		
										Edit/Change Record	OK			OK
										Cancel				OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
							Show Report	SSCIS Performance Assessment Report	Print	Print	OK	OK	
											Cancel	OK	
									Export	Export	Save	I think it saves the wrong file	
											Cancel	OK	
									Close			OK	
									Close			OK	
	This Level				Results Table	Refresh							not sure what this button does
						Safety Assessment	Performance Assessment	1, Search Now	Safety Assessment	Calculate			this button doesn't appear to do anything
										Calculate			runs a program and gives a .txt file on the screen
								Done			OK		
						2, Search Now				OK			
						BCFL, Search now				OK			
						Cancel				OK			

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
					Add Record	Edit Results Table	OK					OK
							Cancel					OK
					Edit Record	You cannot edit Functional ID or Event No. Column. Delete the row and add a new event.	OK					OK
						Edit/Change Record	OK					OK
							Cancel					OK
					Delete Record	Deleting Record	Yes					OK
							No					OK
					Show Report	Performance Assessment Report	Print	Print	OK			OK
									Cancel			OK
							Export	Export	Save			Saved the incorrect file or used old data
									Cancel			OK
					SSCIS							OK
					Close							OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
Ex. Events	Natural			Natural Events	Only Applicable	Natural Events (only applicable to site)						
					Show All	Natural Events						
					Add Record	Add Record	Apply	Name of New Record	OK			OK
									Apply			OK
									Cancel			
									Show Report	Natural Events Detail Report	Print	OK, need more space
												OK
									Export	Not sure what file it is saving, but it is the incorrect one		
										OK		
					View Report File			OK				
					Cancel				OK			
					Delete Record	Deleting Record	Yes			OK		
No			OK									

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
					Show Report	Natural Events Report	Print	OK				OK	
								Cancel				OK	
					Export	Save				Not sure what file it is saving, but it is the incorrect one			
						Cancel				OK			
					Close				OK				
	Human Induced				Human Induced External Events	Only Applicable	Human Induced External Events (only applicable to site)						OK
						Show All	Human Induced External Events						OK
						Add Record	Add Record	Apply	Name of New Record	OK			OK
										Apply			OK
										Cancel			OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments					
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level														
												OK, but need more space					
												OK					
												Export	Not sure what file it is saving, but it is the incorrect one				
												OK					
												View Report File	OK				
												Cancel	OK				
												Delete Record	Deleting Record	Yes	OK		
														No	OK		
												Show Report	Human Induced External Events Report	Print	Print	OK	OK
																Cancel	OK
														Export	Export	Save	Not sure what file it is saving, but it is the incorrect one
																Cancel	OK
												Close					OK
Probability	Taxonomy			Probability	Display	Search Results	New Search	Probability	Search			OK					
				Taxonomy	Data		Search	Data Search									

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments					
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level														
									Close			OK					
												Close					OK
												Find					OK
												Close					OK
	Search Database			Probability Data Search		Search	Search Results	(See above for button function)					OK				
						Close						OK					
	Failure Calculator			Failure Worksheet		Calculate							OK				
						Save to File	Data Saved (Gives the file name where the data is saved.)	OK					OK				
						Reset						OK					
						Close						OK					
Checklists	Component Failure Mode Checklist		Component Failure Mode Checklist		Search							OK					
					Close						OK						

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
Regs.	10CFR63			C:\Program Files\PCSA TOOL\NRC_Regs\Part063\10cfr63.htm								OK
	10CFR20			C:\Program Files\PCSA TOOL\NRC_Regs\Part020\index.html								OK
Help	About			About PCSA	Close							OK
	Disclaimer			Disclaimer								Same Run-time error as in startup menu
	Menu Help			Menu help feature is not implemented yet	OK							OK

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**SCIENTIFIC NOTEBOOK # 529E**

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**3.2 Problems Found in Initial Acceptance Test**

The following are problems that were found as the testing of the PCSA Tool was carried out:

1. In the Startup menu when I press the Disclaimer button I get the following ERROR - Run-time error '339': Component 'richtx32.ocx' or one of its dependencies not correctly registered: a file missing or invalid. Then when I press OK PCSA Tool closes.
2. When Exporting some files I get an "Invalid Data Source" error and the file doesn't save, so I get a blank page when I open the file in Explorer. There are also some files that appear to save but then when I try and open them in Explorer they are not the correct files.
3. In the What If Table when I try to Add Record or Copy Record I can type something in the Add Record window, but then when I press Apply I get the following: Run-time error '3265':Item not found in this collection.
4. In the Initiating Event table when I try to Add Record or Copy Record it brings up the What If Table for me to add the entry too. The initiating event table is still up, just behind the What If Table.
5. In the Fault Tree Form the Cancel button shows up when the window is first opened and when clicked gives the following error: Run-time error '3020': Update or CancelUpdate without AddNew or Edit. Then I click OK and PCSA Tool closes.
6. I can't tell what the Refresh buttons for all of the windows in Performance Menu do.
7. In the Help Menu the Disclaimer Sub-Menu also gives the same Run-time error that was found in the Startup Menu application.
8. In the Performance Menu under the Project Sub-menu in the Results Table the Add, Edit and Delete Record buttons are not operable. Is this the way that it should be?
9. In the Ex. Events Menu under the Natural Sub-Menu in the Natural Events Form when you Add Record it is not clear how to use the View Report File button.
10. In the Consequences Menu under Public Dose, RSAC, Advanced RCAS Input in the Deterministic RSAC Run for Advanced Users I can't tell if the Get RSAC input file from tool button does anything.
11. In the Performance Menu under the Project Sub-Menu in the Results Table - Project View Base Case when I click Safety Assessment then get the Performance Assessment Form then type in 1 and click Search Now I get the Safety Assessment - Category 1 Event Sequence, and the Calculate button on the right is confusing to me. If I enter a number in the Normal release field then press the tab key to go to the next field the total dose is automatically calculated, and the calculate button is not necessary. However, if I type in a normal release and then click calculate it calculates the total dose. This also occurs in Performance => Project in the Results table click SSCIS and then click Safety Assessment then 1 and search Now and the same window pops up with the same result. It occurs again in Performance => This Level => Safety Assessment => 1, Search Now too.

**3.3 Solutions to Problems Found in Initial Acceptance Test**

**4. RESULTS OF SECOND TEST (Version 7/5/2002)**

**4.1 Results of the Second Acceptance Test**

The results of the second acceptance test are shown in the chart below.

PCSA Tool Version 7/5/2002 Acceptance Test

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
Startup	About PCSA			About PCSA	Close							OK, Closes the About PCSA window and goes back to Startup Menu	
	Disclaimer			Disclaimer	OK							OK	
	Open project			Open An Existing Project	Open								OK, Opens the chosen file in PCSA Tool
					Cancel	PCSA Tool - No file selected	OK						OK, Closes window and goes back to Startup Menu
	Create project			Create A New Project	Open	PCSA Tool - The file already exists, Enter another name	OK						OK
						Create Levels for Functional Area	Apply						OK, Creates the new functional level that has been selected

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Reset					OK, Resets the choices to 1 in the number columns
							Delete					OK, Deletes the highlighted functional area
							View Tree	Creation Tree View	Done			OK, Shows the new functional tree, then returns to be able to create more levels
							Done					OK, Opens the new file and functional areas in PCSA Tool
							Cancel	PCSA Tool - This action will destroy your tree. Do you want to continue?	Yes			OK, Closes both windows and goes back to Startup Menu
						No					OK, Closes window and goes back to create more functional areas	
					Cancel	PCSA Tool - No file selected	OK					OK, Closes window and goes back to Startup Menu

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
	Exit											OK, Closes PCSA Tool
File	New Project			PCSA Tool - Do you wish to save your work?	Yes	Save As	Save	PCSA Tool - The file that you have selected already exists. Do you want to overwrite it?	Yes			OK, Saves file and opens Startup Menu
									No			OK, Closes PCSA Tool window and goes back to Save As window
								You can only save to a new file or the one that you originally opened	OK			OK, Closes window and goes back to Save As window
							Cancel					OK, Closes the window and goes back to the Startup Menu

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
					No	PCSA Tool - If you have not saved, your work will be destroyed. Continue?	Yes					OK, Closes window and goes to startup menu
					No					OK, Closes window and goes back to PCSA Tool		
	Open Project			PCSA Tool - Do you wish to save your work?	Yes	Save As	Save	You can only save to a new file or the one that you originally opened	OK	Save As	(See buttons in Button Level 2, to left)	OK, Saves and goes to startup menu
									Yes			OK, Saves and goes back to Startup Menu
												No
									Cancel			OK, Closes window and goes back to Startup Menu

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments					
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level														
					No	PCSA Tool (work will be destroyed if not saved, continue?)	Yes					OK, Closes window and goes back to Startup Menu					
							No						OK, Closes window and goes back to PCSA Tool				
		Save											OK				
		Save As			Save As	Save	You can only save to a new file or the one that you originally opened	OK	Save As					OK, Closes window and goes back to Save As Menu			
											Yes					OK, appears to have saved and still in PCSA Tool main page	
												No	Save As				OK, Closes window and goes back to Save As Menu
												Cancel					OK, Closes window and goes back to PCSA Tool main page

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
	Exit			PCSA Tool - Do you want to save?	Yes							OK, Appears to have saved, then the program closed
					No							OK, Doesn't appear to save, then the program closed
Project_Tree				Project Tree	Define Levels	Define Levels	Done					OK, Closes Define Levels window and goes back to Project Tree window
					Show Report	Project Tree Report	Print	Print	OK			OK, Report printed properly
									Cancel			OK, Closed Print window and went back to Report
						Export	Export	Save			OK	
								Cancel			OK, Closes window and goes back to Report	
					Add Level	Edit Levels for Functional Area	Apply				OK, Adds the selected level	
							Reset				OK, Clears your level selections	

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Delete					OK, Deletes the selected level
							Done					OK, Saves the new levels, closes the window and returns to Project Tree window
							Cancel	PCSA Tool - This action will destroy your List. Do you wish to continue?	Yes			OK, Closes the window and returns to Project Tree window
								No				OK, Closes window and goes back to Edit Levels window
					Edit Selection	PCSA Tool - No selection has been made	OK					OK, Closes window and returns to Project Tree window
						Functional Area Descriptions	OK					OK, Saves changes and returns to Project Tree window

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Cancel	PCSA Tool - Any changes to the functional area descriptions will not be applied	OK			OK, Changes were not saved and then returned to Project Tree window
					Done	PCSA Tool - You have not selected a functional area. Do you wish to exit anyway?	Yes					OK, Closes window and goes to PCSA Tool Main page
				No								
												OK, If a level is selected then the Project Tree window closes and goes to PCSA Tool main page

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
					Delete Selection	PCSA Tool - The functional area is in use. This entry cannot be deleted.	OK					OK, Closes window and returns to Project Tree window
						PCSA Tool - You have not selected a functional area. There is nothing to delete.	OK					OK, Closes window and returns to Project Tree window
												OK, Deletes the functional level if it is not in use
System	Sysdesc			System Description	Apply							OK, Saves new information on specific system
					Show Report	System Description Report	Print	Print	OK			OK, Prints report, closes Print window, and goes back to report
									Cancel			OK, Closes Print window and goes back to report

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Export	Export	Save			OK
									Cancel			OK, Closes the Export window and goes back to the report
					OK							OK, Saves the new information, closes the window and goes back to the PCSA Tool main page
					Cancel							OK, Doesn't save the new information, closes the window and goes back to the PCSA Tool main page
Int. Hazard Analysis	FMEA	Form		FMEA Form	Add Record	FMEA Form	Update Record	PCSA Tool - You must enter a Component Description, or click Cancel.	OK	FMEA Form		OK, Saves the new record and returns to the FMEA Form

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
								PCSA Tool - You must enter your rationale in the Remarks box.	OK			OK
						Cancel						OK
					Delete Record	PCSA Tool - Are you sure you want to delete record?	Yes					OK
							No					OK
					Edit Record	FMEA Form	Update Record					OK
							Cancel					OK
					Show Report	FMEA Report	Print	Print	OK			OK
									Cancel			OK
							Export	Export	Save			OK
									Cancel			OK
					FMEA Table	FMEA Table	(See below for Table buttons)					OK
					Close							OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
		Table		FMEA Table	FMEA Form	FMEA Form	(See above for Form buttons)					OK
					Add Record	Add Record	Apply					OK
							Cancel					OK
					Delete Record	Deleting Record	Yes					OK
							No					OK
					Edit Record	Edit/Change	Apply					OK
							Cancel					OK
						This cell cannot be edited!	OK					OK
						Editing is not allowed in this cell, or multiple cells selected!	OK					OK
						The Item No. field cannot be changed!	OK					OK
					Copy Record	Add Record	Apply					OK
							Cancel					OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments			
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level												
					Show Report	FMEA Report	Print	Print	OK			OK			
									Cancel			OK			
							Export	Export	Save			OK			
									Cancel			OK			
					Close						OK				
					Severe Events List		Severe Events List	Edit Record	This cell cannot be edited!	OK	PCSA Tool - The only field that can be edited is 'Remarks'.	OK			OK
										PCSA Tool - The only field that can be edited is 'Remarks'.	OK				OK
				Edit/Change						Apply				OK	
								Cancel				OK			
				Show Report				FMEA Report	Print	Print	OK			OK	
											Cancel			OK	
									Export	Export	Save			OK	
					Cancel						OK				

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments		
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level											
					Close							OK		
	What If	Form		What If Form	Add Record	What If Form	Update					OK		
							Cancel					OK		
					Delete Record	PCSA Tool - Are you sure you want to delete record?	Yes					OK		
							No					OK		
					Edit Record	What If Form	Update Record					OK		
							Cancel					OK		
					Show Report	What If Analysis Report	Print	Print	OK			OK		
									Cancel				OK	
							Export	Export	Save				OK	
									Cancel				OK	
					What If Table	What If Table	(See below for Table buttons)					OK		
					Close							OK		
					Table		What If Table	What If Form	What If Form	(See above for Form buttons)				OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
					Add Record	Add Record	Apply					OK
							Cancel					OK
					Edit Record	PCSA Tool - Item No. Field cannot be changed!	OK					OK
						Editing is not allowed in this cell, or multiple cells selected!	OK					OK
						This cell cannot be edited!	OK					OK
						Edit/Change	Apply					OK
							Cancel					OK
					Copy Record	Add Record	Apply				OK	
							Cancel				OK	
					Delete Record	Deleting Record	Yes				OK	
							No				OK	

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments				
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level													
					Show Report	What If Analysis Report	Print	Print	OK			OK				
									Cancel			OK				
							Export	Export	Save			OK				
									Cancel			OK				
					Close						OK					
					Severe Events List		Severe Events List	Edit Record	This cell cannot be edited!	OK	The only field that can be changed is 'Remarks'.	OK				OK
									The only field that can be changed is 'Remarks'.	OK					OK	
				Edit/Change					Apply				OK			
								Cancel				OK				
				Show Report				What If Analysis Report	Print	Print	OK			OK		
											Cancel			OK		
					Export	Export	Save				OK					
							Cancel				OK					
				Close						OK						

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments			
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level												
Energy Analysis		Form		Energy Analysis Form	Previous							OK			
					Next									OK	
					Add record	Energy Analysis Form	Update Record							OK	
							Cancel							OK	
					Delete Record	PCSA Tool - Are you sure you want to delete record?	Yes							OK	
							No							OK	
					Edit Record	Energy Analysis Form	Update Record							OK	
							Cancel							OK	
					Show Report	Energy Analysis Report	Print	Print	OK					OK	
									Cancel						OK
							Export	Export	Save						OK
									Cancel						
					Energy Anal. Table	Energy Analysis Table	(See below for Table buttons)						OK		
					Close								OK		
					Table				Previous						OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
					Next							OK	
					Energy Anal. Form	Energy Analysis Form	(See above for Form buttons)					OK	
					Add Record	Energy Analysis Form	Update Record					OK	
				Cancel									OK
					Edit Record	This cell cannot be edited!	OK					OK	
						Edit/Change	Apply						OK
							Cancel						OK
					Copy Record	Add Record	Apply					OK	
								Cancel					OK
					Delete Record	Deleting Record	Yes					OK	
								No					OK
					Show Report	Energy Analysis Report	Print	Print	OK			OK	
										Cancel			
								Export	Export	Save			

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments			
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level												
		Severe Events List		Severe Events List					Cancel			OK			
					Close									OK	
					Edit Record	This cell cannot be edited!	OK	The only field that can be changed is 'Remarks'.	OK					There are no records showing in the List, but they are shown in the report correctly.	
						The only field that can be changed is 'Remarks'.	OK								
					Edit/Change	Apply									
						Cancel									
					Show Report	Energy Analysis Report	Print	Print	OK					OK	
									Cancel					OK	
						Export	Export	Save						OK	
								Cancel						OK	
					Close									OK	
Freq. Analysis	Initiating Event	Form		Initiating Event Form	Add Record	Initiating Event Form	Update Record					OK			
					Cancel							OK			

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
					Delete Record	PCSA Tool - Are you sure that you want to delete record?	Yes					OK	
							No						OK
					Edit Record	Initiating Event Form	Update Record					OK	
							Cancel						OK
					Show Report	Initiating Event Report	Print	Print	OK			OK	
									Cancel				
							Export	Export	Save				OK
									Cancel				
					Init Event Table	Initiating Event Table	(See below for Table buttons)					OK	
					Close							OK	
		Table		Initiating Event Table	Init Event Form	Initiating Event Form						OK	
					Add Record	Add Record	Apply					there are no entries in the Table, but they do show up in the report.	

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Cancel					
					Edit Record	Error (This cell cannot be edited)	OK					
						This field cannot be changed (only filed can be changed is REMARKS)	OK					
						Edit Change	Apply					
							Cancel					
					Copy Record	Add Record	Apply					
							Cancel					
					Delete Record	Deleting Record	Yes					
							No					
					Show Report	Initiating Event Report	Print	Print	OK			OK
								Cancel				OK
							Export	Export	Save			OK
									Cancel			OK
					Close							OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
	Event Tree	Event Scenario		Event Scenario	Frequency Calculation	Failure Worksheet	Calculate					OK
							Save to File	Data Saved (Gives the file name where the data is saved.)	OK			OK
							Reset					OK
							Close					OK
					Add Event Sequence	Event Scenario	Update Record					There is a glitch with the Uncertainty box for the event sequence boxes. Sometimes it will save but others it won't and sometimes it copies the value to another event.
							Cancel					
					Edit Event Sequence	Event Scenario	Update Record					
							Cancel					

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
				Delete Event Sequence	PCSA Tool - Do you want to delete Item Sequence No. [00.0]?	Yes						
					No							
				Add Scenario	Event Scenario	Update Record					OK	
						Cancel					OK	
				Delete Scenario	PCSA Tool - Are you sure that you want to delete this Scenario and all associated Event Sequences?	Yes					OK	
						No					OK	
				Edit Record	Event Scenario	Update Record					OK	
						Cancel					OK	
				Show Report	Event Scenario Report	Print	Print	OK			OK	
							Cancel				OK	
						Export	Export	Save				OK
								Cancel				OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments		
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level											
					Close							OK		
		Event Sequence	Form	Event Sequence Form	Add Record	Event Sequence Form	Update Record					I get an error and the program crashes		
							Cancel							
					Delete Record	PCSA Tool - Are you sure you want to delete record?	Yes							
							No							
					Edit Record	Event Sequence Form	Update Record							
							Cancel							
					Show Report	Event Sequence Report	Print	Print	OK					
									Cancel					
							Export	Export	Save					
					Cancel									
				Event Seq. Table	Event Sequence Table	(See below for Table buttons)								
				Close										

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments			
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level												
			Table	Event Sequence Table	Event Seq. Form	Event Sequence Form	(See above for Form buttons)					OK			
					Add Record		Add Record	Apply					Zero length string error		
								Cancel							OK
					Edit Record		The Item No. filed cannot be changed!	OK							
								This cell cannot be edited!	OK						
								Edit/Change			Apply				
					Cancel										
					Copy Record		Add Record	Apply							
								Cancel							
					Delete Record		Deleting Record	Yes							
								No							
					Show Report		Event Sequence Report	Print	Print	OK			I get a Jet Engine Error		
										Cancel					

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Export	Export	Save			
									Cancel			
					Close							OK
	Fault Tree	Form		Fault Tree Form	Add Record	Fault Tree Form	Update Record					OK
							Cancel					OK
					Delete Record	PCSA Tool - Are you sure you want to delete record?	Yes					OK
							No					OK
					Edit Record	Fault Tree Form	Update Record					OK
							Cancel					OK
					Show Report	Fault Tree Report	Print	Print	OK			OK
									Cancel			OK
							Export	Export	Save			OK
									Cancel			OK
					Fault Tree Table	Fault Tree Table	(See below for Table buttons)					OK
					Close							OK

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments		
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level											
		Table		Fault Tree Table	Fault Tree Form	Fault Tree Form	(See above for Form buttons)					OK		
					Add Record		Apply						I get zero length string error, can't add a record	
							Cancel							OK
					Edit Record		The Item No. file cannot be changed!	OK					OK	
							This cell cannot be edited!	OK						OK
							Edit/Change		Apply					
					Cancel									OK
					Copy Record		Apply						OK	
							Cancel							OK
					Delete Record		Deleting Record	Yes					OK	
							No							OK
					Show Report		Fault Tree Report	Print	Print	OK			OK	
										Cancel				

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Export	Export	Save			OK
									Cancel			OK
					Close							OK
Saphire	Run Saphire											OK
Consequence	Public Dose	RSAC	Standard RSAC Input	RSAC Input	Set All Defaults							
					Set Page Defaults							
					Cancel	PCSA Tool - You did not create an RCAS input file.	OK					
					Done/Run	RSAC Output	View RSAC Output File	Notepad file - rsac5out.txt				
				Done								
			Advanced RSAC Input	Deterministic RSAC Run for Advanced Users	Get RSAC input file from tool.							
			Exit Run Advanced									

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments		
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level											
					Run Advanced	Notepad file - rsac5.in	I think I can change values and then close the window and the program runs	Notepad file - Rsac5.out						
			Show output	RSAC Output	View RSAC Output File	Notepad file - rsac5out.txt								
					Done									
		MELCOR	Input		MELCOR Input	Defaults								
						Defaults								
						Cancel								
						Run MELCOR	MELCOR Results	Close						
			Output		MELCOR Results	OK								
		Worker Dose			Worker Dose	Reload Defaults								
						Calculate Dose								

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
					Defaults								
					Close								
Performance	Frequency Categorization			Frequency Categorization	Apply	Frequency Categorization	Close						
	Project			Results Table - Project View Base Case	Refresh								
		Safety Assessment	Performance Assessment		1, Search Now	Safety Assessment - Category 1 Event Sequence	Calculate						
							Calculate	comban.txt - Notepad					
							Done						
		2, Search Now	Results Table - Project View Base Case		(See above for buttons)								
		BCFL, Search Now	Results Table - Project View Base Case		(See above for buttons)								
		Cancel											
Add Record													

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
					Edit Record								
					Delete Record								
					Show Report	Performance Assessment Report	Print	Print	OK				
				Cancel									
				Export			Export	Save					
								Cancel					
				SSCIS	Results Table - Project View SSCIS Case	Safety Assessment	Refresh	1, Search Now	Safety Assessment - Category	Calculate			
									1 Event Sequence	Calculate			
									Done				
									2, Search Now				
									BCFL, Search Now				
									Cancel				

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Edit Record	You cannot edit Functional ID or Event No. Column. Delete the row and add a new event.	OK			
							Edit/Change Record	OK				
								Cancel				
							Show Report	SSCIS Performance Assessment Report	Print	Print	OK	
											Cancel	
								Export	Export	Save		
										Cancel		
							Close					
							Close					
							This Level			Results Table	Refresh	
Safety Assessment	Performance Assessment	1, Search Now	Safety Assessment	Calculate								
				Calculate								
Done												

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							2, Search Now					
							BCFL, Search now					
							Cancel					
					Add Record	Edit Results Table	OK					
							Cancel					
					Edit Record	You cannot edit Functional ID or Event No. Column. Delete the row and add a new event.	OK					
						Edit/Change Record	OK					
							Cancel					
					Delete Record	Deleting Record	Yes					
							No					
					Show Report	Performance Assessment Report	Print	Print	OK			
									Cancel			
							Export	Export	Save			

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments		
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level											
									Cancel					
					SSCIS									
					Close									
Ex. Events	Natural			Natural Events	Only Applicable	Natural Events (only applicable to site)								
					Show All	Natural Events								
					Add Record	Add Record	Apply	Name of New Record	OK					
									Apply					
									Cancel					
									Show Report	Natural Events Detail Report	Print			
							Export							
View Report File														
		Cancel												

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
					Delete Record	Deleting Record	Yes						
							No						
					Show Report	Natural Events Report	Print	OK					
								Cancel					
							Export	Save					
	Cancel												
				Close									
	Human Induced			Human Induced External Events		Only Applicable	Human Induced External Events (only applicable to site)						
								Show All	Human Induced External Events				
								Add Record	Add Record	Apply	Name of New Record	OK	
Apply													
Cancel													

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments																																																																																																																																		
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level																																																																																																																																											

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
					Close								
	Search Database			Probability Data Search	Search	Search Results	(See above for button function)						
					Close								
	Failure Calculator			Failure Worksheet	Calculate								
					Save to File	Data Saved (Gives the file name where the data is saved.)	OK						
					Reset								
					Close								
Checklists	Component Failure Mode Checklist		Component Failure Mode Checklist	Search									
				Close									
Regs.	10CFR63			C:\Program Files\PCSA TOOL\NRC_Regs\Part063\10cfr63.htm									

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
	10CFR20			C:\Program Files\PCSA TOOL\NRC_Regs\Part020\index.html								
Help	About			About PCSA	Close							
	Disclaimer			Disclaimer								
	Menu Help			Menu help feature is not implemented yet	OK							

**4.2 Problems Found in Second Acceptance Test**

**4.3 Solutions to Problems Found in Second Acceptance Test**

Karen Stiles maintained this scientific notebook from June 27, 2002 to July 5, 2002. Karen Stiles was a student assistant. Her summer term ended on 7/5/2002. From now this book will be maintained by Cheryl Patton. Cheryl will continue the acceptance test of PCSA Tool.

B. Dasgupta  
7/16/2002

**5.0 Results of the Third Acceptance Test**

The findings of the third test of the Beta 6.0 version of the PCSA Tool are shown in the following chart.

PCSA Tool Version 7/5/2002 Acceptance Test

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
Startup	About PCSA			About PCSA	Close							OK, Closes the About PCSA window and goes back to Startup Menu	
	Disclaimer			Disclaimer	OK							OK, Closes the Disclaimer window and goes back to Startup Menu	
	Open project			Open An Existing Project	Open								OK, Opens the chosen file in PCSA Tool
					Cancel	PCSA Tool - No file selected	OK						OK, Closes window and goes back to Startup Menu
	Create project			Create A New Project	Open	PCSA Tool - The file already exists, Enter another name	OK						OK, returns to Startup Menu
					Create Levels for Functional Area	Apply							OK, Creates the new functional level that has been selected

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Reset					OK, Resets the choices to 1 in the number columns
							Delete					OK, Deletes the highlighted functional area
							View Tree	Creation Tree View	Done			OK, Shows the new functional tree, then returns to be able to create more levels
							Done					OK, Opens the new file and functional areas in PCSA Tool
							Cancel	PCSA Tool - This action will destroy your tree. Do you want to continue?	Yes			OK, Closes both windows and goes back to Startup Menu
						No					OK, Closes window and goes back to create more functional areas	
					Cancel	PCSA Tool - No file selected	OK					OK, Closes window and goes back to Startup Menu

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
	Exit											OK, Closes PCSA Tool
File	New Project			PCSA Tool - Do you wish to save your work?	Yes	Save As	Save	PCSA Tool - The file that you have selected already exists. Do you want to overwrite it?	Yes			OK, Saves file and opens Startup Menu
									No			OK, Closes PCSA Tool window and goes back to Save As window
								You can only save to a new file or the one that you originally opened	OK			OK, Closes window and goes back to Save As window
							Cancel					OK, Closes the window and goes back to the Startup Menu

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
					No	PCSA Tool - If you have not saved, your work will be destroyed. Continue?	Yes					OK, Closes window and goes to startup menu
					No					OK, Closes window and goes back to PCSA Tool		
	Open Project			PCSA Tool - Do you wish to save your work?	Yes	Save As	Save	You can only save to a new file or the one that you originally opened	OK	Save As	(See buttons in Button Level 2, to left)	OK, Saves and goes to startup menu
								The file that you have selected already exists. Do you want to overwrite it?	Yes			OK, Saves and goes back to Startup Menu
									No			OK, Closes window and goes back to Save As Menu
								Cancel				OK, Closes window and goes back to Startup Menu

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
					No	PCSA Tool (work will be destroyed if not saved, continue?)	Yes					OK, Closes window and goes back to Startup Menu	
							No						OK, Closes window and goes back to PCSA Tool
	Save											OK	
	Save As			Save As	Save	You can only save to a new file or the one that you originally opened	OK	Save As					OK, Closes window and goes back to Save As Menu
							The file that you have selected already exists. Do you want to overwrite it?	Yes					OK, appears to have saved and still in PCSA Tool main page
						No		Save As					OK, Closes window and goes back to Save As Menu
					Cancel								OK, Closes window and goes back to PCSA Tool main page

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
	Exit			PCSA Tool - Do you want to save?	Yes							OK, Appears to have saved, then the program closed
					No							OK, Doesn't appear to save, then the program closed
Project_Tree				Project Tree	Define Levels	Define Levels	Done					OK, Closes Define Levels window and goes back to Project Tree window
					Show Report	Project Tree Report	Print	Print	OK			OK, Report printed properly
									Cancel			OK, Closed Print window and went back to Report
							Export	Export	Save			OK, exports in selected file format, returns to Project Tree Report
									Cancel			OK, Closes window and goes back to Report
Add Level	Edit Levels for Functional Area	Apply				OK, Adds the selected level						

Area

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Reset					OK, Clears your level selections
							Delete					OK, Deletes the selected level
							Done					OK, Saves the new levels, closes the window and returns to Project Tree window
							Cancel	PCSA Tool - This action will destroy your List. Do you wish to continue?	Yes			OK, Closes the window and returns to Project Tree window
								No				OK, Closes window and goes back to Edit Levels window
					Edit Selection	PCSA Tool - No selection has been made	OK					OK, Closes window and returns to Project Tree window
						Functional Area Descriptions	OK					OK, Saves changes and returns to Project Tree window

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Cancel	PCSA Tool - Any changes to the functional area descriptions will not be applied	OK			OK, Changes were not saves and then returned to Project Tree window
					Done	PCSA Tool - You have not selected a functional area. Do you wish to exit anyway?	Yes					OK, Closes window and goes to PCSA Tool Main page
				No								OK, Closes window and returns to Project Tree window
												OK, If a level is selected then the Project Tree window closes and goes to PCSA Tool main page
					Delete Selection	PCSA Tool - The functional area is in use. This entry cannot be deleted.	OK					OK, Closes window and returns to Project Tree window

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
						PCSA Tool - You have not selected a functional area. There is nothing to delete.	OK					OK, Closes window and returns to Project Tree window
												OK, Deletes the functional level if it is not in use
System	Sysdesc			System Description	Apply							OK, Saves new information on specific system
					Show Report	System Description Report	Print	Print	OK			OK, Prints report, closes Print window, and goes back to report
									Cancel			OK, Closes Print window and goes back to report
					Export	Export	Save				OK, saves selected file format, returns to Project Report Window	

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
									Cancel			OK, Closes the Export window and goes back to the report
					OK							OK, Saves the new information, closes the window and goes back to the PCSA Tool main page
					Cancel							OK, Doesn't save the new information, closes the window and goes back to the PCSA Tool main page
Int. Hazard Analysis	FMEA	Form		FMEA Form	Add Record	FMEA Form	Update Record	PCSA Tool - You must enter a Component Description, or click Cancel.	OK	FMEA Form		OK, Saves the new record and returns to the FMEA Form

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
								PCSA Tool - You must enter your rationale for selecting Yes or No in the 'Severe Events' field in the Remarks box or click Cancel	OK			OK, returns to FMEA form
							Cancel					OK, returns to FMEA form
					Delete Record	PCSA Tool - Are you sure you want to delete record?	Yes					OK, deletes record, returns to FMEA form
							No					OK, returns to FMEA form
					Edit Record	FMEA Form	Update Record					OK, updates record, returns to FMEA form
							Cancel					OK, returns to FMEA form
					Show Report	FMEA Report	Print	Print	OK			OK, prints, returns to FMEA Report

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
									Cancel			OK, returns to FMEA Report
							Export	Export	Save			OK, exports as selected file format, returns to FMEA Report
									Cancel			OK, returns to FMEA Report
				FMEA Table	FMEA Table							Displays FMEA Table (See below for Table buttons)
				Close								OK
		Table		FMEA Table	FMEA Form	FMEA Form						Displays FMEA form (See above for Form buttons)
				Add Record	Adding a Record, FMEA Table, Project		Apply					OK, adds record, returns to FMEA Table
							Cancel					Returns to FMEA Table
				Edit Record	Editing FMEA Table		Apply					OK, applies edits to FMEA Table

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Cancel					OK, returns to FMEA TABLE
						Error: Invalid cell selected (This cell cannot be edited, or multiple cells selected)	OK					OK, returns to FMEA TABLE
					Copy Record	Copying a Record, FMEA Table	Apply					OK, copies selected record, returns to FMEA Table
							Cancel					OK, returns to FMEA Table
					Delete Record	Deleting Record: Are you sure you want to delete?	Yes					Deletes record, returns to FMEA Table
							No					OK, returns to FMEA Table
					Show Report	FMEA Report	Print	Print	OK			Prints report, returns to FMEA Report
									Cancel			Returns to FMEA report

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Export	Export	Save			Exports file in selected format, returns to FMEA Report
									Cancel			Returns to FMEA Report
					Close							OK
		Severe Events List		Severe Events List	Edit Record	This field cannot be changed: The only field that can be edited is 'Remarks FMEA Table'.	OK					OK, returns to Severe Events List
					Editing Severe Events list		Apply					OK, applies changes, returns to Severe Events List
							Cancel					Returns to Severe Events List
					Show Report	FMEA Report	Print	Print	OK			Prints report, returns to FMEA Report
									Cancel			Returns to FMEA Report

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Export	Export	Save			Exports file in selected format, returns to FMEA Report
									Cancel			Returns to FMEA Report
					Close							Returns to main PCSA screen
	What If	Form		What If Form	Add Record	What If Form	Update	You must enter your rationale for selecting yes or no in the 'Severe Events' field in the 'Remarks' box or click 'Cancel'	OK			Returns to What If form
							Cancel					Returns to What If form
					Delete Record	PCSA Tool - Are you sure you want to delete record?	Yes					Deletes record, returns to What If form
							No					Returns to What If form

**SCIENTIFIC NOTEBOOK # 529E**

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments				
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level													
				Show Report	What If Analysis Report	Print	Print	OK				Prints What If Analysis Report				
												Cancel			Returns to What If Analysis Report	
						Export	Export	Save			Exports file in selected format, returns to What If Analysis Report					
								Cancel			Returns to What If Analysis Report					
				What If Table			What If Table		(See below for Table buttons)						Displays What If Table	
				Close											Returns to main PCSA screen	
				Table			What If Table	What If Form	What If Form	(See above for Form buttons)						Displays What If Form
								Add Record	Adding a Record, What If Table	Apply						
				Cancel									Returns to What If Table			

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
					Edit Record	Error! Invalid Cell Selected: Editing is not allowed in this cell, or multiple cells selected!	OK					Returns to What If Table
					Editing What If Table		Apply					Applies Edits, returns to What If Table
							Cancel					
					Copy Record	Copying Record, What If Table	Apply					Copies selected record, returns to What If Table
							Cancel					
					Delete Record	Deleting Record	Are you sure you want to delete?	Yes				Deletes selected record, returns to What If Table
								No				

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments								
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level																	
					Show Report	What If Analysis Report	Print	Print	OK			Prints report, returns to What If Analysis Report								
									Cancel			Returns to What If Analysis Report								
							Export	Export	Save			Exports file in selected format, returns to What If Analysis Report								
									Cancel			Returns to What If Analysis Report								
							Close						Returns to main PCSA screen							
					Severe Events List		Severe Events List	Edit Record	Error! Invalid Cell Selected: Editing is not allowed in this cell, or multiple cells selected!				OK			Returns to Severe Events List				
																Editing Severe Events List	Apply			Applies edits, returns to Severe Events List
																	Cancel			Returns to Severe Events List

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments		
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level											
					Show Report	PCSA What If Analysis Report	Print	Print	OK			Prints reports, returns to What If Analysis Report		
									Cancel			Returns to What If Analysis Report		
							Export	Export	Save			Exports file in selected format, returns to What If Analysis Report		
									Cancel			Returns to What If Analysis Report		
								Close						Returns to Severe Events List
					Energy Analysis	Form		Energy Analysis Form	Previous					
Next											Toggles through Event Categories			

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
					Add record	Energy Analysis Form	Update Record	PCSA Tool: You must enter your rationale for selecting Yes or No in the Severe Events Field in the Remarks box or click cancel	OK			Returns to Energy Analysis Form
							Cancel					Returns to Energy Analysis Form
					Delete Record	PCSA Tool - Are you sure you want to delete record?	Yes					Not an option in the Energy Analysis Form
							No					
					Show Report	Energy Analysis Report	Print	Print	OK			Prints PCSA Energy Analysis Report
									Cancel			Returns to PCSA Energy Analysis Report

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments			
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level												
							Export	Export	Save			Exports file in selected format, returns to PCSA Energy Analysis Report			
									Cancel			Returns to PCSA Energy Analysis Report			
									Energy Anal. Table	Energy Analysis Table	(See below for Table buttons)				Displays Energy Analysis Table
									Close						Returns to PCSA main screen
				Table				Previous							Toggles through Event Category
								Next							Toggles through Event Category
								Energy Anal. Form	Energy Analysis Form	(See above for Form buttons)				Displays Energy Analysis Form	
								Add Record	Energy Analysis Form	Update Record				Adds record, returns to Energy Analysis Table	

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Cancel					Returns to Energy Analysis Table
					Edit Record	Error! Invalid cell selected: Editing is not allowed in this cell or multiple cells selected!	OK					Returns to Energy Analysis Table
						Editing Energy Analysis Table	Apply					Applies edits, returns to Energy Analysis Table
							Cancel					Returns to Energy Analysis Table
					Copy Record	Copying a record, Energy Analysis Table	Apply					Copies selected record, returns to Energy Analysis Table
							Cancel					Returns to Energy Analysis Table
					Delete Record	Are you sure you want to delete?	Yes					Deletes selected record, returns to Energy Analysis Table

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							No					Returns to Energy Analysis Table
					Show Report	Energy Analysis Report	Print	Print	OK			Prints PCSA Energy Analysis Report, returns to Energy Analysis Table
									Cancel			Returns to Energy Analysis Table
							Export	Export	Save			Exports file in selected format, returns to Energy Analysis Report
					Close							Closes Energy Analysis Table, returns to main PCSA screen
		Severe Events List		Severe Events List	Edit Record	Error! Invalid cell selected: editing is not allowed in this cell or multiple cells selected	OK					Returns to the Severe Events List

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
						The only field that can be changed is 'Remarks'.	OK					Returns to the Severe Events List	
						Editing Severe Events List for 'Energy Analysis' Project	Apply					Applies edits, returns to the Severe Events List	
							Cancel					Returns to the Severe Events List	
					Show Report	Energy Analysis Report	Print	Print	OK			Prints report, returns to the Severe Events Report	
										Cancel			Returns to the Severe Events Report
								Export	Export	Save			Exports file in selected format, returns to the Severe Events Report
										Cancel			Returns to the Severe Events Report
					Close							Returns to the main PCSA screen	

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
Freq. Analysis	Initiating Event	Form		Initiating Event Form	Add Record	Initiating Event Form	Update Record					Adds record, returns to Initiating Event Form
							Cancel					Returns to Initiating Event Form
					Delete Record	PCSA Tool - Are you sure that you want to delete record?	Yes				Deletes record, returns to Initiating Event Form	
							No				Returns to Initiating Event Form	
					Edit Record	Initiating Event Form	Update Record				Updates record, returns to Initiating Event Form	
							Cancel				Returns to Initiating Event Form	
					Show Report	Initiating Event Report	Print	Print	OK		Prints PCSA Initiating Events Reports, returns to Initiating Event Report	
									Cancel		Returns to Initiating Event Report	

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments			
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level												
							Export	Export	Save			Exports file in selected format, returns to Initiating Event Report			
									Cancel			Returns to Initiating Event Report			
									Init Event Table	Initiating Event Table	(See below for Table buttons)			Displays Initiating Events Table	
									Close					Returns to PCSA main screen	
				Table		Initiating Event Table		Init Event Form	Initiating Event Form						Displays Initiating Events Form
								Add Record	Adding a Record, Initiating Events Table	Apply					Adds record, returns to Initiating Events Table
										Cancel					Returns to Initiating Events Table
								Edit Record	Error! Invalid cell selected: Editing is not allowed in this cell or multiple cells selected	OK					returns to Initiating Events Table

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
						Editing Initiating Events Table	Apply					Applies edits, returns to Initiating Events Table
							Cancel					Returns to Initiating Events Table
					Copy Record	Copying a Record, Initiating Events Table	Apply					Copies record, returns to Initiating Events Table
							Cancel					Returns to Initiating Events Table
					Delete Record	Are you sure you want to delete?	Yes					Deletes record, returns to Initiating Events Table
							No					Returns to Initiating Events Table
					Show Report	PCSA Initiating Event Report	Print	Print	OK			Prints report, returns to Initiating Events Report
									Cancel			Returns to Initiating Events Report
							Export	Export	Save			Exports file in selected format, returns to Initiating Events Report

**SCIENTIFIC NOTEBOOK # 529E**

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
									Cancel			Returns to Initiating Events Report
					Close							Returns to PCSA main screen
Event Tree	Event Scenario		Event Scenario	Frequency Calculation	Failure Worksheet	Calculate						Calculates data entered to give the number of failures to be expected
						Save to File	Data Saved (Gives the file name where the data is saved.)	OK			File saved	
						Reset					Clears failure worksheet	
						Close					Returns to Events Scenario	
				Add Event Sequence	Event Scenario	Update Record				Updates record, returns to Event Scenario		
				Cancel						Returns to Event Scenario		

**SCIENTIFIC NOTEBOOK # 529E**

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
					Edit Event Sequence	Event Scenario	Update Record					Updates record, returns to Event Scenario
							Cancel					Returns to Event Scenario
					Delete Event Sequence	PCSA Tool - Do you want to delete Item Sequence No. [00.0]?	Yes					Deletes record, returns to Event Scenario
							No					Returns to Event Scenario
					Add Scenario	Event Scenario	Update Record					Updates record, returns to Event Scenario
							Cancel					Returns to Event Scenario
					Delete Scenario	PCSA Tool - Are you sure you want to delete this Scenario and all associated Event Sequences?	Yes					Deletes record, returns to Event Scenario
							No					Returns to Event Scenario

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments							
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level																
					Edit Record	Event Scenario	Update Record					Updates record, returns to Event Scenario							
							Cancel				Returns to Event Scenario								
					Show Report	PCSA Event Scenario Report						Print	Print	OK			Prints reports, returns to Event Scenario Report		
														Cancel			Returns to Event Scenario Report		
														Export	Export	Save			Exports file, returns to Event Scenario Report
																Cancel			Returns to Event Scenario Report
					Close					Returns to PCSA main screen									
					Event Sequence	Form	Event Sequence Form	Event Sequence Form	Add Record	Event Sequence Form							Updates record, returns to Event Sequence		
																	Cancel		

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
				Delete Record	PCSA Tool - Are you sure you want to delete record?	Yes						Deletes record, returns to Event Sequence
						No					Returns to Event Sequence	
				Edit Record	Event Sequence Form	Update Record					Updates record, returns to Event Sequence	
						Cancel					Returns to Event Sequence	
				Show Report	Event Sequence Report	Print	Print	OK			Prints report, returns to PCSA Event Sequence Report	
								Cancel				Returns to PCSA Event Sequence Report
						Export	Export	Save				Exports file in selected format, returns to PCSA Event Sequence Report
								Cancel				Returns to Event Sequence Report

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments		
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level											
					Event Seq. Table	Event Sequence Table	(See below for Table buttons)					Displays Event Sequence Table		
					Close							Returns to PCSA main screen		
				Table	Event Sequence Table	Event Seq. Form	Event Sequence Form	(See above for Form buttons)					Displays Event Sequence Form	
						Add Record	Adding a Record, Event Sequence Table	Apply						Adds record, returns to Event Sequence Table
								Cancel					Returns to Event Sequence Table	
						Edit Record	Error! Invalid cell selected: Editing is not allowed in this cell or multiple cells selected	OK						Returns to Event Sequence Table
								Editing Event Sequence Table	Apply					Applies edits, returns to Event Sequence Table
								Cancel						Returns to Event Sequence Table

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
				Copy Record	Copying a Record, Events Sequence Table	Apply						Copies selected record, returns to Event Sequence Table
						Cancel					Returns to Event Sequence Table	
				Delete Record	Deleting Record	Yes					Deletes record, returns to Event Sequence Table	
						No					Returns to Event Sequence Table	
				Show Report	Event Sequence Report	Print	Print	OK			Prints Events Sequence Report	
								Cancel				Returns to Event Sequence Report
						Export	Export	Save				Exports file in selected format, returns to Event Sequence Report
								Cancel				Returns to Event Sequence Report
				Close						Returns to PCSA main screen		

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
	Fault Tree	Form		Fault Tree Form	Add Record	Fault Tree Form	Update Record					Updates record, returns to Fault Tree Form
							Cancel				Returns to Fault Tree Form	
					Delete Record	PCSA Tool - Are you sure you want to delete record?	Yes				Deletes record, returns to Fault Tree Form	
							No				Returns to Fault Tree Form	
					Edit Record	Fault Tree Form	Update Record				Updates record, returns to Fault Tree Form	
							Cancel				Returns to Fault Tree Form	
					Show Report	Fault Tree Report	Print	Print	OK		Prints PCSA Fault Tree Report	
									Cancel		Returns to Fault Tree Report	
							Export	Export	Save		Exports file in selected format	
									Cancel		Returns to Fault Tree Report	

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
					Fault Tree Table	Fault Tree Table	(See below for Table buttons)					Displays Fault Tree Table	
					Close							Returns to PCSA main screen	
		Table		Fault Tree Table	Fault Tree Form	Fault Tree Form	(See above for Form buttons)						Displays Fault Tree Form
					Add Record	Adding a Record, Fault Tree Table	Apply						Adds record, returns to Fault Tree Table
							Cancel						returns to Fault Tree Table
					Edit Record	Error! Invalid cell selected: Editing is not allowed in this cell or multiple cells selected	OK						Returns to Fault Tree Table
							Editing Fault Tree Table	Apply					
					Cancel							Returns to Fault Tree Table	

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
				Copy Record	Copying a Record, Fault Tree Table	Apply						Copies selected record, Returns to Fault Tree Table
						Cancel					Returns to Fault Tree Table	
				Delete Record	Are you sure you want to delete record?	Yes					Deletes record, Returns to Fault Tree Table	
						No					Returns to Fault Tree Table	
				Show Report	Fault Tree Report	Print	Print	OK			Prints PCSA Fault Tree Report, Returns to Fault Tree Report	
								Cancel			Returns to Fault Tree Report	
						Export	Export	Save			Exports file in selected format, Returns to Fault Tree Report	
								Cancel			Returns to Fault Tree Report	
				Close						Returns to PCSA main screen		

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
Sapphire	Run Sapphire											Opens main Sapphire screen
Consequence	Public Dose	RSAC	Standard RSAC Input	RSAC Input	Set All Defaults							Applies default settings
					Cancel	PCSA Tool - You did not create an RCAS input file.	OK					Returns to PCSA main screen
					Done/Run	RSAC Output	View RSAC Output File	Notepad file - rsac5out.txt				Displays file
							Done					Closes window
			Advanced RSAC Input	Deterministic RSAC Run for Advanced Users	Get RSAC input file from PCSA tool.	RSAC input file copied to advanced RSAC directory	OK				Displays notepad file	
					Edit existing Advanced RSAC input file						Displays notepad file	
					Exit Run Advanced						Returns to PCSA main screen	

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
					Run Advanced	Notepad file - rsac5.in		Notepad file - Rsac5.out				Displays notepad file	
			Show output	RSAC Output	View RSAC Output File	Notepad file - rsac5out.txt						Displays output file	
					Done							Returns to PCSA main screen	
		MELCOR	Input		MELCOR Input	Defaults							Restores default settings
						Cancel							Returns to PCSA main screen
						Run MELCOR	MELCOR Results	Close					Initiates MELCOR
		Worker Dose			Worker Dose	Reload Defaults							Restores default settings
						Calculate Dose							Calculates dose results
						Defaults							Not an option on this screen
						Close							Returns to PCSA main screen

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
Performance	Frequency Categorization			Frequency Categorization	Apply	Frequency Categorization	Close					Returns to PCSA main screen	
	Project			Results Table - Project View Base Case	Refresh								Refreshes screen
					Safety Assessment	Performance Assessment	1, Search Now	Safety Assessment - Category 1 Event Sequence	Calculate				Calculates total dose
									Calculate	comban.txt - Notepad			Displays notepad file
									Done				Returns to Results Table
					2, Search Now	Results Table - Project View Base Case	(See above for buttons)				Displays Table		
					BCFL, Search Now	Results Table - Project View Base Case	(See above for buttons)				Displays Table		
					Cancel						Returns to Table		
					Show Report	Performance Assessment Report	Print	Print	OK			Prints report, returns to Performance Assessment Report	

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
									Cancel			returns to Performance Assessment Report
							Export	Export	Save			Exports file in selected format, returns to Performance Assessment Report
									Cancel			Returns to Performance Assessment Report
					SSCIS	Results Table - Project View SSCIS Case	Refresh					Refreshes Table
							Safety Assessment	1, Search Now	Safety Assessment - Category 1 Event Sequence	Calculate		Calculates normal release
										Calculate		Calculates normal release and total dose
										Done		Returns to Table
								2, Search Now				Displays Table
								BCFL, Search Now				Displays Table
								Cancel				Returns to previous Table

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
							Edit Record	You cannot edit Functional ID or Event No. Column.	OK			Returns to Table	
							Edit/Change Record		OK			Applies edits, returns to Table	
									Cancel				Returns to Table
							Show Report	SSCIS Performance Assessment Report	Print	Print	OK	Prints SSCIS Performance Assessment Report	
										Cancel			Returns to SSCIS Performance Assessment Report
										Export	Export	Save	Exports file in selected format, Returns to SSCIS Performance Assessment Report
												Cancel	Returns to SSCIS Performance Assessment Report
					Close							Returns to PCSA main screen	

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
	This Level			Results Table	Refresh							Refreshes Table	
					Safety Assessment	Performance Assessment	1, Search Now	Safety Assessment	Calculate				Calculates normal dose
									Calculate				Calculates run status
									Done				Returns to Table
							2, Search Now				Displays Table		
							BCFL, Search now				Displays Table		
							Cancel				Returns to Table		
					Add Record	Edit Results Table	OK				Adds record, Returns to Results Table		
							Cancel				Returns to Results Table		
					Edit Record	You cannot edit Functional ID or Event No. Column. Delete the row and add a new event.	OK				OK		

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
					Edit/Change Record		OK					Applies edits, Returns to Results Table
							Cancel					Returns to Results Table
					Delete Record	Are you sure you want to delete?	Yes					Deletes record, Returns to Results Table
							No					Returns to Results Table
					Show Report	Performance Assessment Report	Print	Print	OK			Prints PCSA Performance Assessment Report
								Cancel				Returns to Performance Assessment Report
							Export	Export	Save			Exports file in selected format, Returns to Performance Assessment Report
									Cancel			Returns to Performance Assessment Report

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments	
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level										
					SSCIS							Not an option in this window	
					Close							Returns to PCSA main screen	
Ex. Events	Natural			Natural Events	Only Applicable	Natural Events (only applicable to site)						Displays Table	
					Show All	Natural Events						Displays complete Table	
					Add Record	Add Record	Apply	Name of New Record	OK				Adds record
									Apply				Adds record
									Cancel				Returns to Natural Events Table
					Show Report	Natural Events Detail Report	Print				Prints Natural Events Report		
							Export				Exports file in selected format		
View Report File						OK							

**SCIENTIFIC NOTEBOOK # 529E**

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
							Cancel					Returns to Natural Events Table
					Delete Record	Are you sure you want to delete?	Yes					Deletes record, returns to Natural Events Table
							No					returns to Natural Events Table
					Show Report	Natural Events Report	Print	OK				Prints report, returns to Natural Events Report
								Cancel				returns to Natural Events Table
							Export	Save				Exports file in selected format, returns to Natural Events Report
								Cancel				returns to Natural Events Table
					Close							Returns to PCSA main screen

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
Human Induced				Human Induced External Events	Only Applicable	Human Induced External Events (only applicable to site)						Displays Human Induced External Events- Only Applicable
					Show All	Human Induced External Events					Displays all Human Induced External Events	
					Add Record	Add Record	Apply	Name of New Record	OK			Returns to Human Induced External Events Table
				Apply							Adds new record	
				Cancel							Returns to Human Induced External Events Table	
				Show Report					Human Induced External Events Detail Report	Print	Prints Human Induced External Events Detail Report	
					Export	Exports file						

SCIENTIFIC NOTEBOOK # 529E

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	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
									View Report File			Displays report file
							Cancel					Returns to Human Induced External Events
					Delete Record	Are you sure you want to delete?	Yes					Deletes record, returns to Human Induced External Events Table
							No					returns to Human Induced External Events Table
					Show Report	Human Induced External Events Report	Print	Print	OK			Prints report
									Cancel			OK
							Export	Export	Save			Exports file in selected format, returns to Human Induced External Events Table
									Cancel			OK
					Close							Returns to PCSA main screen
Probability	Taxonomy			Probability Taxonomy	Display Data	Search Results	New Search	Probability Data Search	Search			Searches database

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments			
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level												
									Close			Closes dialog box, returns to search results			
												Close			Returns to Probability Taxonomy
												Find			Uses input information to search database
												Close			Returns to PCSA main screen
	Search Database			Probability Data Search		Search	Search Results	(See above for button function)					Displays search results		
						Close					Returns to PCSA main screen				
	Failure Calculator			Failure Worksheet		Calculate							Calculates input information		
						Save to File	Data Saved (Gives the file name where the data is saved.)	OK				Saves file			

SCIENTIFIC NOTEBOOK # 529E

Main Menu	Sub-Menu			Form	Button Level 1	Form	Button Level 2	Form	Button Level 3	Form	Button Level 4	Result and Comments
	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
					Reset							Clears the failure worksheet of values
					Close							Returns to PCSA main screen
Checklists	Component Failure Mode Checklist			Component Failure Mode Checklist	Search							Searches list for specific component
					Close							
Regs.	10CFR63			C:\Program Files\PCSA TOOL\NRC_Regs\Part063\10cfr63.htm								Directs user to NRC website
	10CFR20			C:\Program Files\PCSA TOOL\NRC_Regs\Part020\index.html								Directs user to NRC website
Help	About			About PCSA	Close							PCSA software information
	Disclaimer			Disclaimer								.OK

**SCIENTIFIC NOTEBOOK # 529E**

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	1 <sup>st</sup> Level	2 <sup>nd</sup> Level	3 <sup>rd</sup> Level									
	Menu Help			Menu help feature is not implemented yet	OK							

**SCIENTIFIC NOTEBOOK # 529E**

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5.1 Solutions

Solutions to problems found during third acceptance test were resolved as they were discovered.

Cheryl Patton  
7/19/02

*SAZ*  
*11/11/03*